07-27-04

PTO/SB/2 (04-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

***			Application Number	09/754,82	3	
MARK OFF	ISMITTAL	}			January 4, 2001	
F	ORM	}	Filing Date			
(to be used for all cor	respondence after initia	al filing)	First Named Inventor	Akira ARA	Ni et al.	
, ,			Art Unit	1742		
·			Examiner Name	John P. S	heehan	
Total Number of Pages in This Submission			Attorney Docket Number	9319A-00	0182	
	=	ENCLO	SURES (check all that apply)			
Fee Transmittal Fo	orm	Drawing	g(s)		lowance Communication to plogy Center (TC)	
Fee Attached		Licensin	ng-related Papers		Communication to Board of s and Interferences	
Amendment / Rep	ly	Petition			Communication to TC Notice, Brief, Reply Brief)	
After Final			to Convert to a onal Application	Proprie	tary Information	
Affidavits/decl	aration(s)		of Attorney, Revocation of Correspondence Address	☐ Status	Letter	
Extension of Time	Request	Termina	al Disclaimer		Enclosure(s) identify below):	
Express Abandonment Request		_	of for Refund	refe	m HDP 1449; Copies of cited erences (17); and knowledgment postcard.	
Information Disclo	sure Statement			- X		
Certified Copy of F	Priority	Remar	ks			
Response to Missi Incomplete Applic					·	
Response to M Parts under 3 1.52 or 1.53						
,	SIGNA	TURE OF A	APPLICANT, ATTORNEY, (OR AGENT		
Firm or Individual name Harness, Dickey & Pierce, P.L.			Attorney Name G. Gregory Schivley Bryant E. Wade	27	eg. No. ,382 ,344 ···	
Signature	Signature 9. Vecres Kluncker					
Date	Date July 26, 2004					
CERTIFICATE OF TRANSMISSION/MAILING						
	t postage as first o	lass mail in	imile transmitted to the USPTO an envelope addressed to:			
Typed or printed name	G. Gregory So	hiyey/Brya	nt E. Wade	Express Mail Label No.	EV 533 146 599 US (7/26/2004)	
Signature	/	1. Mec	an limber	Date	July 26, 2004	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 85 U.S.C/127 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO/Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. OO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006, OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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JUL 2 FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT 180

Complete if Known				
Application Number	09/754,823			
Filing Date	January 4, 2001			
First Named Inventor	Akira ARAI et al.			
Examiner Name	John P. Sheehari			
Art Unit	1742			
Attornov Dooket No.	9319A-000182			

Me	THOD OF P	PAYMENT	T (check a	ill that apply)		FEE CALCULATION (continued)					
☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None						3. AD	DITIO	VAL FE	ES	•		
☐ Deposit Accou	unt:	Ord	ter				Large		Small E	ntity		*
Deposit				•			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Pald
Account	08-0750						1051	130	2051	65	Surcharge - late filing fee or oath	
Number	L						1052	.50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit				_			1053	130	1053	130	Non-English specification	
Account	Harness, I	Dickey & F	Pierce, P.L.	C.			1812	2,520	1812	2,520	For filing a request for reexamination	
Name The Director is a	uthorized to	o: (checi	k all that a	apply)			1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☐ Charge fee(s) ☐ Charge any ac	iditional fee((s) during	the pend	dency of th	is application	1	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
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to the above-iden			It. ULATION	•			1252	420	2252	210	Extension for reply within second month	
1. BASIC F	ILING FEI						1253	950	2253	475	Extension for reply within third month	\vdash
Large Entity	Small Entity	Ĺ					1254	1,480	2254	740	Extension for reply within fourth month	
	Fee Fee Code (\$)		Description	<u>on</u>	Fee Paid		1255	2,010	2255	1,005	Extension for reply within fifth month	
	Code (\$) 2001 385		y filing fee		recraiu	7	1401	330	2401	165	Notice of Appeal	
	2001 303		ign filing fe			\exists	1402	330	2402	165	Filing a brief in support of an appeal	
	2002 170		ign ining le It filing fee			-	1403	290	2403	145	Request for oral hearing	
1004 770	2004 385	Reis	sue filing f	fee		1	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2	2005 80	Prov	isional filli	ng fee			1452	110	2452	55	Petition to revive – unavoidable	
·	CUDT	OTAL (4)			(\$) 0	_	1453	1,330	2453	665	Petition to revive – unintentional	
	3001	OTAL (1)			(\$) 0	_	1501	1.330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLA	IM FEES	FOR U	TILITY A	AND REIS	SSUE		1502	480	2502	240	Design issue fee	\vdash
*		Ext	tra	Fee from	Fee		1503	640	2503	320	Plant issue fee	
ļ <u> </u>			aims	below	Paid	_	1460	130	1460	130	Petitions to the Commissioner	├ ──┤ │
Total Claims	-20 **	= 0	×		= 0	╛	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	-
Independent Claims	-3 **	= 0	x		= 0						Submission of Information Disclosure	
Multiple		- ك			ļ <u>L</u>	-	1806	180	1806	180	Strnt	180
Dependent Large Entity	ı Small E	ntity	. X	L		J	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
Fee Fee	Fee	Foo					1809	770	2809	385	Filing a submission after final rejection	
Code (\$)	Code	(\$)	Fee Desc		_						(37 CFR § 1.129(a))	
1202 18	2202			excess of 2			1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1201 86	2201		•		n excess of 3						examined (37 CFN 9 1.129(b))	
1203 290	2203		•	•	laim, if not pa		1801	770	2801	385	Request for Continued Examination (RCE)	
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**or number previ	ousiy paid, if g	greater; Fo	or Heissues	s, see adove	1		<u> </u>					
CUDWITTED OV				1	•							

SUBMITTED BY	11		. Соп	nplete (if applicable)
Name (Print/Type)	G. Gregory Schivley Bryant E. Registration No. (Attorney/Agent)	27,882 / 40,344	Telephone	(248) 641-1600
Signature	1. /hugen/Clan	le	Date	7/26/2004

WARNING: Information on this form may become public. Credit and information should not be included on this form? Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.1/1 and 1.27. The information is required to obtain of etain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. /22 and 37 CFR 1.1/1 This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Citel Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



JUL 2 6 2004 80

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

09/754,823

Filing Date:

January 4, 2001

Applicant:

Akira ARAI et al

Group Art Unit:

1742

Examiner:

John P. Sheehan

Title:

MAGNETIC POWDER AND ISOTROPIC BONDED

MAGNET

Attorney Docket:

9319A-000182

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

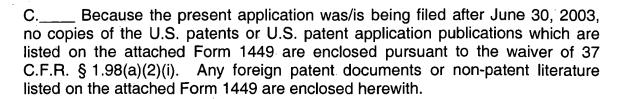
II. COPIES

A. X Submitted herewith is a legible copy of (i) each U.S. patent application
publication and U.S. and foreign patent; (ii) each publication or that portion which
caused it to be listed; (iii) for each cross-referenced pending U.S. application
listed below in Section IV, the application specification including the claims, and
any drawing of the application which caused it to be listed including the claims
directed to that portion; and (iv) all other information or that portion which caused
it to be listed.

B Any patents, publications or other information which are listed on Forn
1449 or on the copies of PTO-892, but which are not enclosed herewith, were
previously cited by or submitted to the PTO in one of the following applications
which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

07/28/2004 WARDELR1 00000122 09754823

U.S. Filing Date



D.____ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
- B. \underline{X} A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
 - 1.X See the attached foreign patent office communications from related foreign applications.
 - 2.X English translations are provided: As listed on Form 1449
 - 3.X Other: Japanese Patent Application No. 2000-001805 is counterpart of USSN 09/755,641, now US Patent No. 6,527,875B2; Japanese Patent Application No. 2000-001804 counterpart of USSN 09/755,953, now US Patent No. 6,551,418B2; Chinese Patent Application No. 01123167.X USSN 09/871,600; Patent corresponds to Chinese 01123167.X corresponds to Application No. 09/871,600; Chinese Patent Application No. 00121672.4 is counterpart of USSN 09/620,703, now US Patent No. 6,558,482; Korean Patent Application No. 10-2001-0031391 corresponds to USSN 09/875,789; and Korean Patent Application No. 10-2001-0030467 corresponds to USSN 09/871,600.
- C. ____The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A.X The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.	Filing Date	Art Unit
09/871,600	05/31/2001	1742
09/875,789	06/06/2001	1742
10/337,986	01/07/2003	1742
10/373.221	02/24/2003	1742
10/385,061	03/10/2003	1742
10/719,969	11/21/2003	1742
10/719,250	11/21/2003	1742
10/266,245	10/08/2002	1742
09/754,463	01/04/2001	1742

V: THIS IDS IS BEING FILED UNDER

A. ___37 C.F.R. § 1.97(b): (check <u>only</u> one box)

- 1. ____ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
- 2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
- 3. _____ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- 4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. <u>X</u> 37 C.F.R. § 1.97(c): (check <u>only</u> one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. X___No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). 2. See the certification below. No fee is required. C. ___37 C.F.R. § 1.97(d): after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee. 1. ____See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) VI. The undersigned hereby certifies that: each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. ____ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the

undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

three months prior to the filing of this IDS.

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

PAYMENT OF FEES (check only one box) VIII.

A. X A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. ____Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

By:

Respectfully submitted,

6. Gregory Schivley, Reg. No. 27,382 Bryant E. Wade, Reg. No. 40, 344

Dated:

HARNESS, DICKEY & PIERCE, P.L.C.

P.O. Box 828

Bloomfield Hills, Michigan 48303

(248) 641-1600

GGS/BEW/JJK



*** TRAILED AM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

	<u>-</u>
ATTORNEY DOCKET No.	SERIAL NO.
9319A-000182	09/754,823
APPLICANT	
Akira ARAI et al.	
FILING DATE	GROUP
January 4, 2001	1742

U.S. PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date		
. 1.		6,527,875 B2	3/4/2003	Arai et al.	148/302	1/5/2001		
2.	·	6,551,418 B2	4/22/2003	Arai et al.	148/302	1/5/2001		
3.		6,558,482 B1	5/6/2003	Arai et al.	148/302	7/20/2000		
4.		6,500,277 B1	12/31/2002	Arai et al.	148/302	1/9/2001		

FORE	FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translatio Yes	n No	
1.		2001-035712	2/9/2001	Japan		X		
. 2.		01-205403	8/17/1989	Japan		Abstract		
3.		10-265915	10/06/1998	Japan		Х		
4.		10-177911	06/30/1998	Japan		Х		
5.		11-288807**	10/19/1999	Japan		Х		

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Ref. Desig.	Examiner's Initials						
1.		Communication from Japanese Patent Office re: counterpart application No. 2000-001805					
2.		Communication from Japanese Patent Office re: counterpart application No. 2000-001804					
3.		Communication from Chinese Patent Office re: counterpart application No. 01123167.X					
4.		Communication from Chinese Patent Office re: counterpart application No. 00121672.4					

Examiner:	·	Date Considered:	•



(Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.	
9319A-000182	09/754,823	
APPLICANT		
Akira ARAI et al.		
FILING DATE	GROUP	
January 4, 2001	1742	

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials		
5.		Goll, D. et al, Journal of Magnetism and Magnetic Materials, "Magnetic and Microstructural Properties of Nanocrystalline Exchange Coupled PrFeB Permanent Magnets", 185 (1998) pp. 49-60.	
6.	·	Chang, W.C. et al, "Magnetic Properties Enhancement of Alpha-Fe/Nd2Fe14B-Type Nanocomposites by Co Substitution", Journal of Applied Physics, American Institute of Physics, New York, Vol. 83, No. 4, 15 Feb. 1998, pps. 2147-2151.	
7.		Communication from Korean Patent Office re: counterpart application No. 10-2001-0031391	
8.		Communication from Korean Patent Office re: counterpart application No. 10-2001-0030467	

^{*} One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip.

Examiner: Date Considered:

^{**}Previously submitted